

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/052178

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A47L15/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A47L D06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 10, 31 August 1999 (1999-08-31) -& JP 11 137882 A (HITACHI LTD), 25 May 1999 (1999-05-25) abstract; figures 6,7	1-3, 8-10, 15-20
Y	-----	4-7
X	PATENT ABSTRACTS OF JAPAN vol. 0163, no. 10 (C-0960), 8 July 1992 (1992-07-08) & JP 4 089023 A (DAIKIN IND LTD), 23 March 1992 (1992-03-23) abstract; figure 1	1,15,19
Y	-----	
Y	DE 30 00 826 A (SKIRDE AQUA NORT) 16 July 1981 (1981-07-16) page 8, paragraph 2	4,7

	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

9 December 2004

Date of mailing of the international search report

01.03.2005

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International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 685 953 A (SOLINAS MARCO ET AL) 11 November 1997 (1997-11-11) column 4, line 21 - line 26 column 4, line 59 - line 61 -----	5,6
A	DE 32 32 057 A (GESSLAUER RUDOLF) 1 March 1984 (1984-03-01) page 7, paragraph 2 - page 9, paragraph 2; figure 2 -----	1,7
A	EP 0 841 427 A (CYCLO3PSS TEXTILE SYSTEMS INC) 13 May 1998 (1998-05-13) page 8, column 8, line 49, paragraph 2 - line 52; figure 2 -----	7
A	US 6 408 471 B1 (TYNDALL TIMOTHY N ET AL) 25 June 2002 (2002-06-25) column 10, line 26 - line 32 -----	

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1, 2-10, 15-20

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1,2-10,15-20

a ware washing process using a biocide, the use of a biocide in a ware washing process and a ware washer adapted for the introduction of a biocide when the ware washer is used for ware cleaning.

2. claims: 1,11-14

detergent and rinse aid compositions for a ware washing process.

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Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 11137882	A	25-05-1999	NONE	
JP 4089023	A	23-03-1992	NONE	
DE 3000826	A	16-07-1981	DE 3000826 A1	16-07-1981
US 5685953	A	11-11-1997	AT 163206 T AU 5104493 A AU 5104593 A BR 9307281 A CA 2147244 A1 WO 9410376 A1 WO 9410377 A1 CN 1107530 A DE 69316988 D1 DE 69316988 T2 EP 0665912 A1 FI 951919 A JP 8502556 T CN 1137593 A	15-02-1998 24-05-1994 24-05-1994 01-06-1999 11-05-1994 11-05-1994 11-05-1994 30-08-1995 19-03-1998 30-07-1998 09-08-1995 20-06-1995 19-03-1996 11-12-1996
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US 6408471	B1	25-06-2002	US 6418580 B1	16-07-2002